

# ArchivesSpace-Archivematica- DSpace Workflow Integration

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# Project Background

- Bentley Historical Library
  - Official archives of U-M and repository for papers/records of individuals and organizations in Michigan
  - Processing digital content since late 1990s
  - Boutique processes for many years, followed by AutoPro (in-house “automated processor”)
  - 2014 reorg: consolidated physical/digital processing
- Mellon Foundation Grant
  - April 2014 - October 2016
  - Integrate functionality of ArchivesSpace, Archivematica, and DSpace in an end-to-end workflow

# Project Goals

- Facilitate the creation and reuse of metadata between systems
- Streamline the ingest and deposit of content in a repository
- Find solutions that meet the Bentley's needs but are flexible and scalable for others
  - Modular: institutions may adopt some, none, or all
  - Employ open standards so that other repository platforms could be used
- Share code and documentation with archives and digital preservation communities

# Key Development Tasks

- Appraisal and Arrangement tab in Archivematica
  - Characterize transfers, identify sensitive data, preview content
- Archivematica-ArchivesSpace integration
  - ArchivesSpace pane within Archivematica interface
  - Create/edit ASpace components; drag and drop content to associate with description and create SIPs
- Automate deposit of AIPs in DSpace

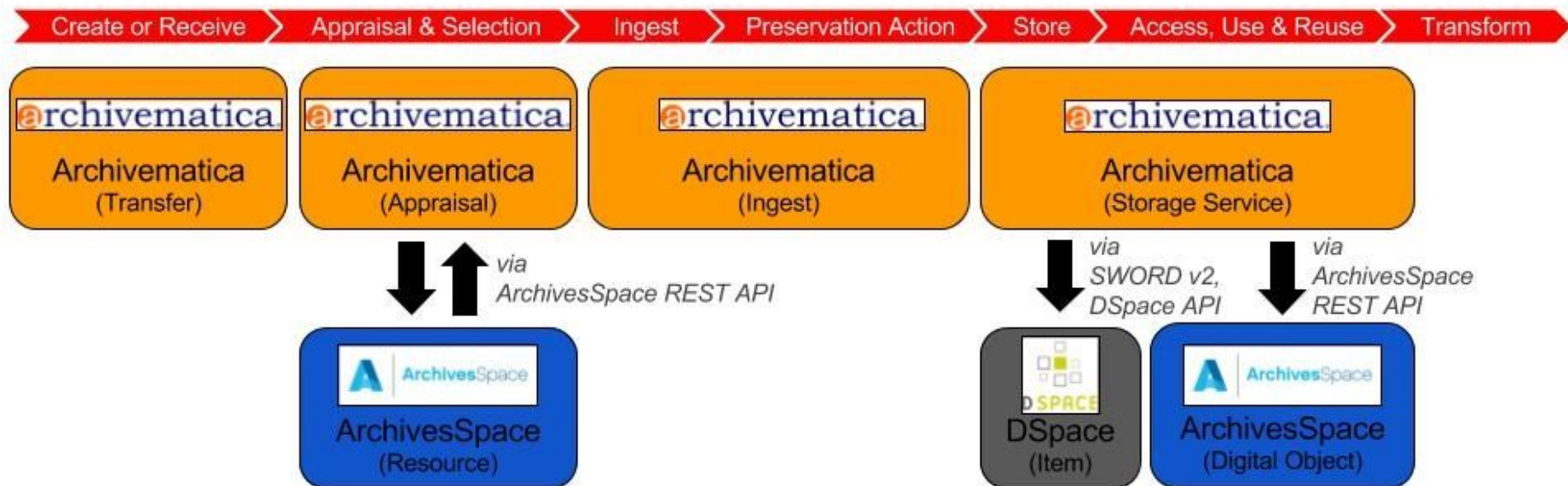
# Enabling Interoperability

- APIs
  - ArchivesSpace API used to create/edit ASpace components
  - DSpace API used to set access restrictions
- Systems of record
  - ArchivesSpace: Administrative, descriptive, and rights metadata
  - Archivematica: Technical and preservation metadata, reconstructing the AIP
  - DSpace: Manage content and enforce access restrictions

## Utilizing Interoperability

- Basic descriptive metadata created in Archivematica and reused in other systems
  - Some descriptive metadata only created/edited in ASpace (e.g., extensive editing or component re-ordering)
- SWORD protocol used for DSpace deposit

# DCC Curation Lifecycle and Workflow Integration



# Collaborative Technology Development

- Artefactual Systems uses agile development
  - User stories, iterative functionality prioritization, etc.
  - Key development tasks evolved over time
- Frequent presentations, communication with other institutions/broader community, etc.



## Further Information

- Project blog:  
<http://archival-integration.blogspot.com/>
- Code4Lib Journal article:  
<http://journal.code4lib.org/articles/12105>
- <https://github.com/artefactual-labs/appraisal-tab>